

TECHNICAL DATA SHEET

LIGHTNING PROTECTION INTERNATIONAL PTY LTD

Comprehensive Lightning and Surge Protection

ABN 11 099 190 897

- Direct Strike Protection
- Earthing Products & Solutions
- Surge & Transient Protection for Power, Data, Communications and RF Lines



LPI® Transient Earth Clamp

Features

- Can be direct buried
- Equipotential bonding

Product Description



LPI's Transient Earth Clamp (TEC-100) prevents earth potential differences by operating only under transient conditions to effectively clamp all connected earths together. Under normal conditions, the TEC-100 presents an effective open circuit. Once the earth potential difference exceeds the breakdown voltage of the TEC-100, conduction immediately occurs and the earth potentials are equalised. The TEC-100 is a self-restoring device and has a life of over ten thousand operations.

Ordering code:	TEC 100
Application:	Prevents earth potential differences
Rated DC Sparkover Voltage (1kV/ μ s):	350V - 750V
Impulse sparkover voltage (1kV/ μ s):	<1.5kV
Max. Discharge current (I_{max}):	150kA 8/20 μ s
Max. Discharge current (I_{imp}):	100kA 10/350 μ s
Nominal Discharge current (I_n):	75kA 8/20 μ s
Insulation resistance (at 100 Vdc):	> 1 G Ohms
Capacitance (at 1 MHz):	5pF
Charge:	50As
Specific Energy:	2500kJ/ Ohms
Operating Temperature:	-40°C to +90°C
Environment rating:	IP 66
Dimensions:	56mm (L) x Ø45.2mm
Mounting:	M8 stud 200mm flying lead with Ø 13mm lug
Weight:	320g

INSTALLATION INSTRUCTION SHEET

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Installation

The TEC-100 leads can be stripped back and crimped to a lug and bolted to an earth bar or bonded/clamped to the earthing system network that joins the Lightning Protection Earth to Mains Power Earth and Telecommunications Earthing system as shown below.

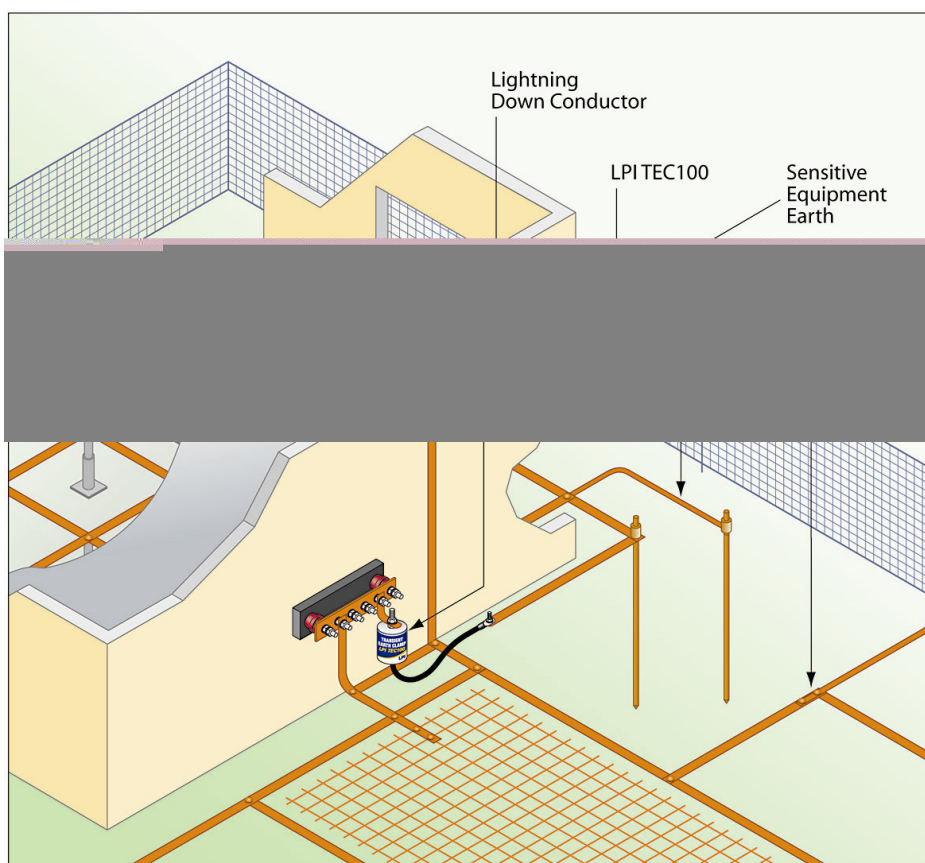


Figure 1: Typical Installation Example

Note and Remarks



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